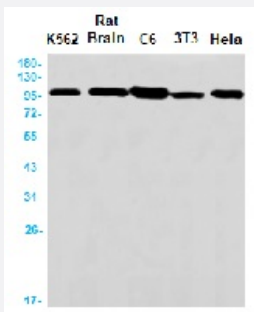


RecomAb™

ACTN4 recombinant monoclonal antibody, clone R06-3D7

Catalog # RAB01614 Size 100 uL

Applications



Western Blot

Western blot analysis of alpha Actinin 4 in K562, rat Brain, C6, 3T3, HeLa lysates using human alpha Actinin 4 recombinant monoclonal antibody, clone R06-3D7 (Cat # RAB01614).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human alpha Actinin 4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human alpha Actinin 4
Theoretical MW (kDa)	Calculated MW: 105 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C for short term. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of alpha Actinin 4 in K562, rat Brain, C6, 3T3, Hela lysates using human alpha Actinin 4 recombinant monoclonal antibody, clone R06-3D7 (Cat # RAB01614).

- Immunocytochemistry

- Immunoprecipitation

Gene Info — ACTN4

Entrez GeneID[81](#)**Protein Accession#**[O43707](#)**Gene Name**

ACTN4

Gene Alias

ACTININ-4, DKFZp686K23158, FSGS, FSGS1

Gene Description

actinin, alpha 4

Omim ID[603278](#) [604638](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq]

Other Designations

actinin alpha4 isoform

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)
- [Systemic lupus erythematosus](#)
- [Tight junction](#)

Disease

- [Alport syndrome](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulosclerosis](#)
- [Kidney Diseases](#)
- [Proteinuria](#)